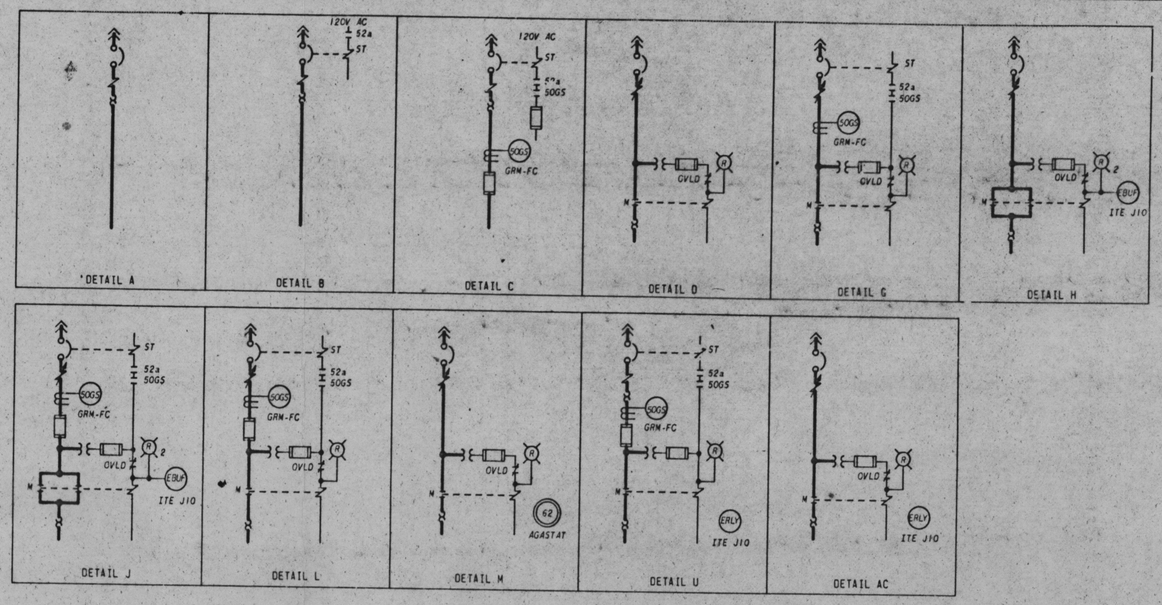
COMPT NO.	LOAD	UNID	DETAIL
A1	MAIN BREAKER	2ED-52NA-52F	SEE KEY DIAG
B1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG
B2	120V-1P-CKT BKR COMPT		SEE KEY DIAG
B4	FUSE COMPT		SEE KEY DIAG
B5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG
C1	SEC C BUS GRD RLY	2ED-50GS-52B	SEE KEY DIAG
C3L	AB 480V RCPT A,B,C,D,E	2ED-ERCP-008	B
C3R	AB 480V RCPT A,B,C,D	2ED-ERCP-009	B
C4	FUTURE - 12 INCH	2ED	
C5	FUTURE - 12 INCH	2ED	
C6	FUTURE - 12 INCH	2ED	
D1	RCP P2A1 SEAL AREA COOLER INLET MOV	2KC-IFCV-182	J
D2	RCP P2A1 SEAL AREA COOLER OUTLET MOV	2KC-IFCV-185	J
D4	ANNULUS PURGE SUPPLY FAN	2VH-EMOT-011	M
D5	SPARE	2ED	H
D6	SPARE	2ED	H
E1L	HEAT TRACING SYSTEM FDR	2MC-ET-18	A
E1R	VITAL BAT RM 2E DUCT HTR	2VA-EHTR-199	A
E2L	VITAL BAT RM 2D DUCT HTR	2VA-EHTR-200	A
E2R	CCS LIQ RADN MON #2 FDR	21R-ILPA-038	A
E3	SPARE	2ED	H
E4	SPARE	2ED	J
E5	SPARE	2ED	L
F1	RB PREHEAT SECONDARY PUMP	2VU-EMOT-080	D
F2	ST GEN 2B STUP MFW ISLN MOV	2CR-IFCV-030	H
F3	SPARE	2ED	H
F4	COMPONENT DRAIN PUMP 2A2	2WL-EMOT-003	D
F5L	SPARE	2ED	A
F5R	TENDON PMP DISTR PNL B	2WE-ET-286	A
F6	STARTUP DISCHARGE TO CONDENSER ISLN MOV	2CR-IFCV-049	H
G1	CABLE BUS TIE TERM. COMPT	2ED	SEE KEY DIAG
G2	SPARE	2ED	J
G3	SPARE	2ED	J
G5	CRD ROOM #2 AHU	2VA-EMOT-021	D
G6	CRD COOLING WATER SURGE TK FROM STA DW SUPPLY MOV	2KD-IFCV-022	H
H1	CABLE BUS TIE TERM. COMPT	2ED	SEE KEY DIAG
H2	SPARE	2ED	D
H3	FUTURE - 12 INCH	2ED	
H4	SPARE	2ED	C
H5	FUTURE - 18 INCH	2ED	
	S		
J1L	RLY R4 & SHIFT OFF DUCT HTR	OVK-EHTR-026	A
J1R	MN ST SAF VALVE RM UNIT HTR	2VC-EHTR-143	A
J2L	AIRBORNE RADN MON FDR	21R-ILPA-008	A
J2R	SPARE	2ED	A

COMPT NO.	LOAD	UNID	DETAIL
J3L	SPARE	2ED	A
J3R	26V DC BAT CHGR 2A ALT FDR	2ES-EBC-10	A
J4	RCP P2B1 SEAL AREA COOLER INLET MOV	2KC-IFCV-193	J
J5	RCP P2B1 SEAL AREA COOLER OUTLET MOV	2KC-IFCV-196	J
K1	CRDM STRUCTURE FAN	2VH-EMOT-115	L
K2	ST GEN B STARTUP & RECIRC MAIN STEAM LINE DRAIN	2SM-IFCV-322	J
K4	MAIN STEAM SAFETY VALVE ROOM SUPPLY FAN	2VC-EMOT-814	D
K5	SMALL TOOL DECONTAMINATION ROOM EXH FAN	2VA-EMOT-334	D
K6	ST GEN 2B STUP ISLN MOV	2CR-IFCV-033	H
L1L	ZONE 2B EL 669 UNIT HTR	2VA-EHTR-208	A
L1R	ZONE 2B EL 649 UNIT HTR	2VA-EHTR-210	A
L2	RB INSTR ROOM AHU	2VJ-EMOT-002	L
L3	RB NORMAL CIRCULATION FAN	2VH-EMOT-108	L
L5	STUP CIRCULATION PUMP 2B	2CR-EMOT-001	G
M1L	ZONE 2B CCS COOLER A UH	2VA-EHTR-212	A
M1R	ZONE 2B EL 686 UNIT HTR	2VA-EHTR-201	A
M2L	TOP DUCT HTR	OVL-EHTR-[illegible]	A
M2R	RADN TANK AREA UNIT HTR	2VA-EHTR-196	A
M3L	TURB DRIVEN AFW PMP HOIST	2VM-WHLE-005	A
M3R	26V DC BAT CHGR 2B NOR FDR	2ES-EBC-11	A
M4	CC SURGE TANK 2B STATION DW SUPPLY MOV	2KC-IFCV-084	H
M5L	RB INTERFACE AREA UNIT HTR	2VA-EHTR-204	A
M5R	RB INTERFACE AREA UNIT HTR	2VA-EHTR-206	A
M6	FUTURE - 12 INCH	2ED	
N1	RC PUMP P2A2 SPACE HTR	2NC-EHTR-006	U
N2	CRDM STRUCTURE FAN	2VH-EMOT-119	L
N4	SPARE	2ED	H
N5	ANNULUS PURGE EXH FAN	2VH-EMOT-004	AC
N6	FUTURE - 12 INCH	2ED	



NOTES

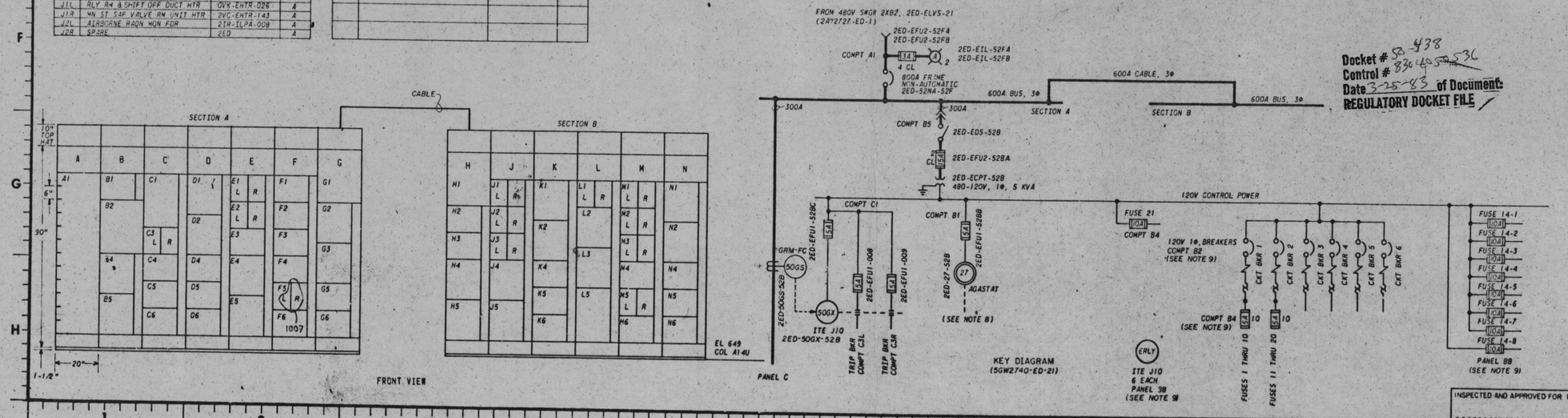
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3Φ, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HE" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 1Φ, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP. ITE "BJ" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 600, MIDGET TYPE 2.
5. FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "J" CURRENT-LIMITING. FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
6. ALL CONTROL TRANSFORMERS ARE 1Φ, 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1 5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNQ FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3 5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRN FUSE.
7. GROUND FAULT PROTECTION (50GS), ITE TYPE GRM-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
8. BUS LOSS OF VOLTAGE IS TO BE MONITORED BY ONE OR MORE ALARM OR ANNUNCIATION SYSTEMS. SEE REFERENCED "ED" SYSTEM SCHEMATICS FOR MONITOR ASSIGNMENTS.
9. THE MOTOR CONTROL CENTER ARRANGEMENT IS CONTROLLED BY THE FRONT VIEW LOCATED ON THIS DRAWING. COMPARTMENT CONFIGURATION CONTROL DRAWINGS ARE REFERENCED IN THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE. THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE DOCUMENTS DEVICE RATINGS, ADJUSTABLE CIRCUIT BREAKER SETTINGS, AND UNIDS FOR 120V AC CIRCUIT BREAKERS, FUSES, AND AUXILIARY PANEL RELAYS.
10. THIS MCC IS NON-CLASS 1E LOCATED IN A CATEGORY 1 STRUCTURE.
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2GW0720-HP-U1
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2XB2	2AW2727-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW2740-ED-2T
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC 2B3 COMPUTERIZED CIRCUIT SCHEDULE	5AC2763-ED

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438 / 50-439
Control # 830405536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	PROJ	APPD
4	386,1007,1174										
	DELETED "VL" SYSTEM LOAD FROM COMPT H2. CHANGED LOAD NAME & UNID, COMPT M2L. ADDED #E SYSTEM LOAD TO COMPT F5R, SWAPPED COMPT F5 WITH COMPTS K2L & K2R FROM MCC 2A4. SWAPPED COMPT H3 WITH COMPT C5 ON MCC 2A4.										
3	899,1299,S1										
	CHANGED UNID OF LOAD IN COMPT K4. ADDED "MC" SYSTEM LOAD TO COMPT E1L. MINOR CHANGE										
2	S1	12-21-77									
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.										
1	70,S1	4-15-74									
	INTERCHANGED RCP MOTOR'S SP HTR SUPPLIES PER ECN 70. INCORPORATED UNID SYS. GEN REV PER ECN S1-VARIOUS										

DSGN ROGER D. HALL
DRWN R. J. TEMPLETON / R. J. HOLLADAY
CHKD E. M. TOWN
SUPV W. L. ALDRIDGE
INSP
ENGINEER C. T. Garner

SCALE: NTS — EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 2

SINGLE LINE
480V MCC 2B3
2ED-EMCC-52

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C. T. Garner — RECOMMENDED A. L. Springer — APPROVED R. M. Bridges

KNOXVILLE 12-6-74 | 88 | E | 5AW2733-ED-1 | R4

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE

THIS DRAWING IS UNDER CONFIGURATION CONTROL